

Willingness to Pay Field Experimental and Survey Data Ghana Cowpea Study, 2016

Study Documentation (Metadata and Code Book)

April 27, 2019

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Metadata Production

Metadata Producer(s)	Michigan State University, Study implementer
Production Date	April 27, 2019
Identification	N/A

About the Dataset

Description: The success of a market-driven approach to seed system development for self-pollinated crops such as cowpea depends on understanding consumer (i.e., farmer) demand for quality seed products. Double blind field experiments and experimental auctions were conducted with cowpea farmers in Ghana to gauge the relative demand for three types of seed products available to farmers in this region that differ in price and quality: certified, quality declared, and recycled. These experiments specifically focused on the following two research questions. First, for a given improved variety (i.e., keeping the genetics constant), what is the perceived difference in the performance of the crop across three seed types – certified, QDS and recycled grain, when the seeds are planted and managed by farmers under their own conditions in a blind experiment? Second, how does the observed differential performance measured by indicators such as filling of pods, plant health, and vigor translate into farmers' WTP for these different seed types? This dataset includes three types of data collected to address these research questions: a) farmer rating of the three seed quality types planted in the farmer managed field demonstration plots. These ratings were based on observed performance during the field days organized around flowering and harvest stages; b) farmer's bid on these three seed quality types during the seed auction experiments conducted on the second field day before harvest; and c) farmer survey data.

Sampling The district was selected based on the importance of cowpea production in the country. Villages within the districts were selected randomly from a list of villages that were in the size range of 80-120 households, and were *striga* hotspot areas, since the cowpea variety used in the experiment was a *striga* resistant variety. Approximately 20-40 farmers from each village participated in the auctions. These farmers were randomly selected from the cowpea growing farmers in a given village.

Method: **Field Experiments:** In each village one farmer was selected to host the field experiment and to grow the 3 or 4 different types of seeds in plots next to each other using farmers' own management practices. Seeds were procured by the researchers and equal quantities of seeds of each type were given to the host farmers to plant on 10x20m plots, which were labeled by letters G, L, and M for certified, QDS and recycled seed, respectively. Apart from the different letters assigned to the seed types, all the seeds were treated with seed dresser of the same color and packaged in similar bags. The planting was done by the host farmers under the supervision of the agricultural extension agent and the research collaborator. Supervision during the planting stage was to ensure uniform planting rate and to avoid mixing of the seed types. Neither the farmers' nor the extension agent who helped in the technical supervision knew which seed type was associated with which letter. These field experiments were established in the 2016 cowpea growing season (July-September). Subsequent operations post-planting such as refilling, first and second weed control, insecticide spraying, reshaping of ridges and harvesting were uniformly carried on each plot by the host farmer. Agricultural extension agents and the research collaborator paid regular visits to prompt the host farmers to comply with the timely and uniform implementation of these practices and to ensure all the operations were uniformly implemented on the same day on each of the plots to ensure that differences that will be observed across the seed plots would be attributed to the differences in the seed types and not due to differential treatments. Two field days were held in 8 villages in Ghana where other farmers from those villages were invited to observe the demonstration plots around flowering stage (Field Day 1) and around harvest stage (Field Day 2). During the field days, each farmer attendee was asked to evaluate the performance of the seed plots based

on visual characteristics they considered important, and rate one plot (i.e., seed type) as the best (both field days) and one as the worst (Field Day 2 only).

Auction experiments: Once farmers had observed how different types of seeds performed in the field, WTP auctions were carried out during Field Day 2 to elicit information about how much they were willing to pay for these seeds based on the observed differences in their performance. We followed the Becker-DeGroot-Marschak (BDM) (Becker, DeGroot and Marschak, 1964) method, where participants do not bid against other people, but only against themselves. The full bidding method was used, whereby farmers participated in three auctions (i.e., one each for seed types G, L, and M). Farmers were asked to “bid” their maximum WTP for one kilo of seed for a given type of seed (referred to by the letter labels) knowing that only one of the three or four auctions would be chosen randomly and the bid for that seed would then be compared to a randomly drawn price from a given revealed range equivalent to their endowment. This revealed price range was 0 to 9.90 Cedis in Ghana. If the bid was greater than or equal to the randomly drawn price, then the farmer purchased that seed for the randomly drawn price (not their bid). The difference in the bids between the three/four auctions reveals the premium (or discount) due to the different quality attributes as perceived by the farmer. . Farmers were given 10 Cedis (GHC) equivalent to \$2 as their initial endowment so they didn’t have to bid using their own money. ¹ These amounts for the initial endowments were equivalent to about 20% more than the price of one kg of certified (i.e., highest quality) seed available in the market. Prior to the seed BDM auction, a practice BDM auction was conducted with a bar of soap (a product that has a readily apparent valuation) to make sure farmers understood the auction mechanism. An additional small amount of cash (i.e., GHC 2) equivalent to \$0.25 was given to farmers for this practice BDM auction.

Farmer survey: Farmers selected for the study and who attended both the field days and the auction experiments were interviewed using a structured questionnaire. The questionnaire collected demographic information about the farmer participant (i.e. respondent) and his/her household characteristics, cowpea production practices, and farmers’ perception and opinion of the seed quality. The survey was conducted by trained enumerators with technical support and supervision by one of this study’s Principal Investigators.

Reference(s) on related publication:

Maredia, Mywish K., Robert Shupp, Edward Opoku, Fulgence Mishili, Byron Reyes, Paul Kusolwa, Francis Kusi, and Abdul Kudra. 2019. Farmer perception and valuation of seed quality: Evidence from bean and cowpea seed auctions in Tanzania and Ghana. *Agricultural Economics* (Forthcoming)

¹ The exchange rate from 1 US\$ to local currency at the time of these experiments was about 2100 Tanzanian Shillings (TSH) and 3.8 Ghanaian Cedi (GHC).

Overview

Overview

Type	Edited, anonymous dataset for public distribution
Identification	N/A
Version	v01
Kind of Data	field experiment, auction experiment, and farmer survey data
Unit of Analysis	farmer and farm plots
Language	Survey was implemented in local language, data was recorded in English in English version of the questionnaire
Questionnaires	Available only in English version

Scope & Coverage

Time Period(s)	2016
Countries	Ghana
Regional coverage:	10 villages in Binduri district in Upper East Region of Ghana

Producers & Sponsors

Primary Investigator(s)	Mywish Maredia, Robert Shupp, and Edward Opoku, Michigan State University; Francis Kusi, Savannah Agricultural Research Institute (SARI)
Contact email for corresponding PI:	maredia@msu.edu
Funding Agency/ies	U.S. Agency for International Development (USAID)

Data Collection

Data Collection Dates	start 2016-05-1; end 2016-9-30
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Accessibility

Citation Requirements

- Use of the dataset must be acknowledged using a citation which would include:
- the Identification of the Primary Investigator
 - the title of the survey (including country, acronym and year of implementation)
 - the survey reference number
 - the source and date of download

Files Description

Dataset contains 3 file(s)

Ghana first fied day ranking data_public	
# Cases	269
# Variable(s)	13

Ghana hh level data_public	
# Cases	269
# Variable(s)	177

Ghana field_level_data A25-A30_2_public	
# Cases	382
# Variable(s)	13

Variables List

Dataset contains 203 variable(s)

File Ghana first fied day ranking data_public							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	hhid	household id	continuous	numeric-10.0	269	0	-
2	villageid	village id	discrete	numeric-8.0	268	1	-
3	x2	gender	discrete	numeric-10.0	268	1	-
4	x3	farmer's age	continuous	numeric-10.0	269	0	-
5	x4a	# of hh member participating	discrete	numeric-8.0	268	1	-
6	x4b	main decision maker	discrete	numeric-10.0	268	1	-
7	x6_1	X6_1_ranking criteria_1st	discrete	numeric-18.0	268	1	-
8	x6_2	X6_2_ranking criteria_2nd	discrete	numeric-18.0	268	1	-
9	x6_3	X6_3_ranking criteria_3rd	discrete	numeric-18.0	268	1	-
10	x7_1	X7_1_plot selected for_1st criteria	discrete	character-12	268	0	-
11	x7_2	X7_2_plot selected for_2nd criteria	discrete	character-12	268	0	-
12	x7_3	X7_3_plot selected for_3rd criteria	discrete	character-12	268	0	-
13	x8	Overall best plot	discrete	character-1	268	0	-

File Ghana hh level data_public							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	hhid	household id	continuous	numeric-10.0	269	0	-
2	villageid	villageid	discrete	numeric-8.0	269	0	-
3	z0	1=participated in field day 1	discrete	numeric-10.0	269	0	-
4	z1	1=consented	discrete	numeric-10.0	269	0	-
5	z2	1=decision maker	discrete	numeric-10.0	269	0	-
6	z3	Acknowledgement note number	continuous	numeric-10.0	269	0	-
7	z6	Gender	discrete	numeric-10.0	269	0	-
8	z7	farmer's age	continuous	numeric-10.0	269	0	-
9	z8	total number of hh members participating	discrete	numeric-10.0	269	0	-
10	z9	overall best plot	discrete	character-9	269	0	-
11	z10	why rated best plot	discrete	numeric-23.0	269	0	-
12	z10_other	z10_other	discrete	numeric-10.0	0	269	-
13	z11	worst plot	discrete	character-10	269	0	-
14	z12	why rated plot worst?	discrete	numeric-27.0	269	0	-
15	z12_other	z12_other	discrete	numeric-10.0	0	269	-
16	a1	num of years of formal educ	discrete	numeric-10.0	269	0	-
17	a2	Language literacy	discrete	numeric-37.0	269	0	-

File Ghana hh level data_public							
#	Name	Label	Type	Format	Valid	Invalid	Question
18	a3a	household size	continuous	numeric-10.0	269	0	-
19	a3b	HHsize_male	discrete	numeric-10.0	269	0	-
20	a3c	HHsize_female	continuous	numeric-10.0	269	0	-
21	a4a	num of hh members age <6	discrete	numeric-10.0	263	6	-
22	a4b	num of hh members age 6-17	discrete	numeric-10.0	266	3	-
23	a4c	num of hh members age 18-65	discrete	numeric-10.0	269	0	-
24	a4d	num of hh members age >65	discrete	numeric-10.0	253	16	-
25	a5	do all children 5-17 attend school?	discrete	numeric-16.0	267	2	-
26	a6	relationship to hh head	discrete	numeric-12.0	269	0	-
27	a6_other	a6_other	discrete	numeric-10.0	0	269	-
28	a7	gender of hh head	discrete	numeric-10.0	269	0	-
29	a8	marital status	discrete	numeric-25.0	269	0	-
30	a9	spouse literacy status	discrete	numeric-21.0	269	0	-
31	a10	years lived in village	continuous	numeric-10.0	269	0	-
32	a11	num of years planting cowpea	continuous	numeric-10.0	269	0	-
33	a12	frequency of seed purchase	discrete	numeric-23.0	269	0	-
34	a13	highest price per kg paid for cowpea seed	continuous	numeric-10.0	268	1	-
35	a14	year when last purchased cowpea seed	discrete	numeric-10.0	269	0	-
36	a15a	price paid per kg for seed last time	continuous	numeric-10.0	269	0	-
37	a15b	total quantity of seed purchased	continuous	numeric-10.0	269	0	-
38	a16a	seed source of last purchase	discrete	numeric-22.0	269	0	-
39	a16a_other	a16a_other	discrete	character-13	5	0	-
40	a16b	type of seed last purchased	discrete	numeric-33.0	269	0	-
41	a17	name of seed variety purchased	discrete	character-19	267	0	-
42	a18	total land area owned	continuous	numeric-10.0	269	0	-
43	a19	land unit	discrete	numeric-10.0	269	0	-
44	a19_other	relationship to hh head--other	discrete	numeric-10.0	0	269	-
45	a20	total land area cultivated all crops last season	continuous	numeric-10.0	269	0	-
46	a21	percentage of cowpea harvest sold	discrete	numeric-10.0	269	0	-
47	a22	percentage of hh income from cowpea sales	discrete	numeric-10.0	269	0	-
48	a23	last season when cowpea was grown	discrete	numeric-24.0	269	0	-
49	a23_other	a23_other	discrete	numeric-10.0	0	269	-

File Ghana hh level data_public							
#	Name	Label	Type	Format	Valid	Invalid	Question
50	a24	number of field plots planted to cowpea	discrete	numeric-10.0	269	0	-
51	a31_1st	most important crop-area planted	discrete	numeric-12.0	269	0	-
52	a31_2nd	2nd most important crop-area planted	discrete	numeric-12.0	269	0	-
53	a31_3rd	3rd most important crop-area planted	discrete	numeric-12.0	269	0	-
54	a31_other	a31_other	discrete	numeric-10.0	0	269	-
55	a32_1st	most important crop--purchased inputs	discrete	numeric-10.0	268	1	-
56	a32_2nd	2nd most important crop--purchased inputs	discrete	numeric-10.0	267	2	-
57	a32_3rd	3rd most important crop--purchased inputs	discrete	numeric-10.0	260	9	-
58	a32_other	a32_other	discrete	numeric-10.0	0	269	-
59	a33_1st	most important crop-hh income	discrete	numeric-10.0	266	3	-
60	a33_2nd	2nd most important crop-hh income	discrete	numeric-10.0	256	13	-
61	a33_3rd	3rd most important crop-hh income	discrete	numeric-10.0	237	32	-
62	a33_other	a33_other	discrete	numeric-10.0	0	269	-
63	a34	how many cowpea variety planted in last season	discrete	numeric-10.0	269	0	-
64	a35a	name of variety 1	discrete	character-15	268	0	-
65	a35b	source of variety 1	discrete	numeric-34.0	269	0	-
66	a36a	name of variety 2	discrete	character-15	52	0	-
67	a36b	source of variety 2	discrete	numeric-34.0	52	217	-
68	a37a	name of variety 3	discrete	character-15	2	0	-
69	a37b	source of variety 3	discrete	numeric-34.0	2	267	-
70	a38a	do you have access to certified seed-any crop?	discrete	numeric-25.0	267	2	-
71	a38b	do you have access to QDS seed any crop?	discrete	numeric-25.0	265	4	-
72	a39a	have you ever purchased certified seed - any crop?	discrete	numeric-33.0	267	2	-
73	a39b	have you ever purchased QDS seed - any crop?	discrete	numeric-25.0	265	4	-
74	a40a_crop1	crop 1 for which used certified seed	discrete	numeric-10.0	51	218	-
75	a40a_crop2	crop 2 for which used certified seed	discrete	numeric-12.0	33	236	-
76	a40a_crop3	crop 3 for which used certified seed	discrete	numeric-12.0	12	257	-
77	a40b_crop1	crop 1 for which used QDS	discrete	numeric-12.0	100	169	-
78	a40b_crop2	crop 2 for which used QDS	discrete	numeric-12.0	78	191	-

File Ghana hh level data_public							
#	Name	Label	Type	Format	Valid	Invalid	Question
79	a40b_crop3	crop 3 for which used QDS	discrete	numeric-12.0	47	222	-
80	a41a_1	most imp advantage of using certified seed	discrete	numeric-34.0	50	219	-
81	a41a_2	2nd most imp advantage of using certified seed	discrete	numeric-34.0	50	219	-
82	a41b_1	most imp advantage of using QDS	discrete	numeric-34.0	100	169	-
83	a41b_2	2nd most imp advantage of using QDS	discrete	numeric-34.0	100	169	-
84	b1_0	farmer has never left village	discrete	numeric-10.0	269	0	-
85	b1_1	farthest travel= another village in district	discrete	numeric-10.0	261	8	-
86	b1_2	farthest travel= another other part of Ghana	discrete	numeric-10.0	235	34	-
87	b1_3	farthest travel= another African country	discrete	numeric-10.0	64	205	-
88	b1_4	farthest travel= Middleeast	discrete	numeric-10.0	5	264	-
89	b1_5	farthest travel= US_canada	discrete	numeric-10.0	0	269	-
90	b1_other	b1_other	discrete	numeric-10.0	0	269	-
91	b10a	main reason not replace seed_1	discrete	numeric-34.0	100	169	-
92	b10b	main reason not replace seed_2	discrete	numeric-34.0	49	220	-
93	b10c	main reason not replace seed_3	discrete	numeric-34.0	17	252	-
94	b11_other	b11_other	discrete	numeric-48.0	13	256	-
95	b11a	main reason replace seed_1	discrete	numeric-48.0	223	46	-
96	b11b	main reason replace seed_2	discrete	numeric-48.0	156	113	-
97	b2	year hh last adopted a new input / practice	continuous	numeric-10.0	269	0	-
98	b3_1	last adopted input was=new seed variety	discrete	numeric-10.0	173	96	-
99	b3_10	last adopted input was=drying_processing	discrete	numeric-10.0	3	266	-
100	b3_2	last adopted input was=Agrochemical	discrete	numeric-10.0	220	49	-
101	b3_3	last adopted input was=New animal breed	discrete	numeric-10.0	25	244	-
102	b3_4	last adopted input was=agronomic practices	discrete	numeric-10.0	77	192	-
103	b3_5	last adopted input was= Soil conservation	discrete	numeric-10.0	28	241	-
104	b3_6	last adopted input was= conservation agriculture	discrete	numeric-10.0	3	266	-
105	b3_7	last adopted input was= Machinery_tools	discrete	numeric-10.0	60	209	-

File Ghana hh level data_public							
#	Name	Label	Type	Format	Valid	Invalid	Question
106	b3_8	last adopted input was=storage methods	discrete	numeric-10.0	43	226	-
107	b3_9	last adopted input was=monocropping	discrete	numeric-10.0	29	240	-
108	b4	ever used hybrid seed	discrete	numeric-10.0	269	0	-
109	b5	ever stopped cowpea variety because of seed constraint	discrete	numeric-10.0	269	0	-
110	b6_other	b6_other	discrete	numeric-10.0	0	269	-
111	b6a	major farming constraint	discrete	numeric-39.0	268	1	-
112	b6b	second farming constraint	discrete	numeric-39.0	268	1	-
113	b7	cowpea grain price if sold	discrete	numeric-10.0	269	0	-
114	b8	buying price of cowpea per kg	discrete	numeric-10.0	269	0	-
115	b9	Frequency of seed purchase	discrete	numeric-18.0	269	0	-
116	c1	belong to a farmer group	discrete	numeric-10.0	269	0	-
117	c2	level of involvement in group	discrete	numeric-15.0	95	174	-
118	c3	are you a leader of any group	discrete	numeric-10.0	96	173	-
119	c4a	number owned- bicycle	discrete	numeric-10.0	268	1	-
120	c4b	number owned- motorcycle_car	discrete	numeric-10.0	268	1	-
121	c4c	number owned- Iron_box_electric	discrete	numeric-10.0	268	1	-
122	c4d	number owned-mobilephone	discrete	numeric-10.0	268	1	-
123	c4e	number owned- television	discrete	numeric-10.0	268	1	-
124	c4f	number owned-video playe ripod dish	discrete	numeric-10.0	268	1	-
125	c5	main fuel source	discrete	numeric-27.0	269	0	-
126	c6	Outer wall material	discrete	numeric-38.0	268	1	-
127	c7	type of toilet facility	discrete	numeric-26.0	268	1	-
128	c8	Adoption behavior	discrete	numeric-36.0	269	0	-
129	bid_m	bid for plot M	continuous	numeric-8.0	269	0	-
130	bid_g	bid for plot G	continuous	numeric-8.0	269	0	-
131	bid_l	bid for plot L	continuous	numeric-8.0	269	0	-
132	random_p..	Random price drawn	continuous	numeric-8.0	269	0	-
133	qtykg	qty willing to purchase at the WTP price (kg)	discrete	numeric-8.0	148	121	-
134	Harvest_..	Best plot at harvest	discrete	numeric-9.0	269	0	-
135	Harvest_..	worst plot at harvest	discrete	numeric-9.0	269	0	-
136	povertys_..	members of the household	continuous	numeric-9.0	269	0	-
137	povertys_..	hh members between 5-17 attending school?	discrete	numeric-9.0	267	2	-
138	povertys_..	Can hh head/spouse read a phrase in english?	discrete	numeric-9.0	222	47	-

File Ghana hh level data_public							
#	Name	Label	Type	Format	Valid	Invalid	Question
139	povertys ..	Main construction materials	discrete	numeric-9.0	268	1	-
140	povertys ..	Toilet facility	discrete	numeric-9.0	268	1	-
141	povertys ..	Main source of fuel	continuous	numeric-9.0	269	0	-
142	povertys ..	hh own a working iron, box or electric	discrete	numeric-9.0	269	0	-
143	povertys ..	hh own television, videoplayer, VCD?	discrete	numeric-9.0	268	1	-
144	povertys ..	number of working mobilephones	discrete	numeric-9.0	269	0	-
145	povertys ..	Any hh member own bicycle or motorcycle or car?	discrete	numeric-9.0	269	0	-
146	povertys ..	poverty score for household	continuous	numeric-9.0	269	0	-
147	highrate ..	seed type rated as high	continuous	numeric-9.0	269	0	-
148	lowrated ..	seed type rated as low	continuous	numeric-9.0	269	0	-
149	prem bes ..	prem price WTP for best seed/worst seed	continuous	numeric-9.0	269	0	-
150	pr_best	WTP for best rated plot (GHC/kg)	continuous	numeric-9.0	269	0	-
151	pr_worst	WTP for worst rated plot (GHC/kg)	continuous	numeric-9.0	269	0	-
152	prem bes ..	percent prem WTP for best seed/worst seed without zero and negative	continuous	numeric-9.0	226	43	-
153	bestplot	overall best plot	discrete	numeric-8.0	269	0	-
154	worstplot	worst plot	discrete	numeric-8.0	269	0	-
155	WTP_prem ..	WTP premium for high rated seed over low rated seed	continuous	numeric-9.0	240	29	-
156	farmergr ..	do you belong to any farmer group/org?	discrete	numeric-9.0	269	0	-
157	totalare ..	Total land area planted to cowpea	continuous	numeric-9.0	269	0	-
158	formaled ..	do you have formal education?	discrete	numeric-9.0	269	0	-
159	gender2	Dummy for male respondent	discrete	numeric-9.0	269	0	-
160	hybridse ..	Dummy for hybrid seed usage	discrete	numeric-9.0	269	0	-
161	adoption ..	First to adopt new technologies	discrete	numeric-9.0	269	0	-
162	literacy1	Can read/write in english and other languages	discrete	numeric-9.0	269	0	-
163	incomefr ..	more than 50% of hh income came from cowpea sales	discrete	numeric-9.0	269	0	-
164	Grain_pp ..	Grain price reported by farmers	continuous	numeric-9.0	264	5	-
165	lastadop ..	dummy for inputs and new farm practice adoption in the last 7years	discrete	numeric-9.0	269	0	-

File Ghana hh level data_public							
#	Name	Label	Type	Format	Valid	Invalid	Question
166	usedcert ..	ever used certified seeds of any crop	discrete	numeric-9.0	269	0	-
167	Cowpease ..	Saved from own harvest	discrete	numeric-9.0	269	0	-
168	Cowpease ..	Purchased as seed/grain from market	discrete	numeric-9.0	269	0	-
169	Purchase ..	Cowpea important in terms of Purchased inputs devoted for production	discrete	numeric-9.0	269	0	-
170	Yield_area	Total yield per acre	continuous	numeric-9.0	264	5	-
171	regularp ..	Regular and occasional seed purchasers	discrete	numeric-9.0	269	0	-
172	frequent ..	hh that acquire or purchase fresh seeds frequently	discrete	numeric-9.0	269	0	-
173	ocassion ..	hh that purchase seeds every three to ten years	discrete	numeric-9.0	269	0	-
174	neversee ..	hh that has never acquire or purchased fresh cowpea seeds for planting	discrete	numeric-9.0	269	0	-
175	usedQDS	ever used QDS of any crop	discrete	numeric-9.0	269	0	-
176	usedcert ..	ever used certified cowpea seed	discrete	numeric-9.0	269	0	-
177	usedQDSc ..	used QD cowpea seed	discrete	numeric-9.0	269	0	-

File Ghana field_level_data A25-A30_2_public							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	hhid	household id	continuous	numeric-10.0	382	0	-
2	villageid	village id	discrete	numeric-10.0	382	0	-
3	f0	field id	discrete	numeric-10.0	381	1	-
4	a25	tot area of this field	continuous	numeric-10.0	382	0	-
5	a26	Units	discrete	numeric-10.0	382	0	-
6	a26_other	A26_other	discrete	numeric-10.0	0	382	-
7	a27	were cowpea inter-cropped?	discrete	numeric-10.0	382	0	-
8	a28	% of field planted to cowpea	discrete	numeric-10.0	381	1	-
9	a29	tot qty harvested	continuous	numeric-10.0	382	0	-
10	a30	units	discrete	numeric-10.0	382	0	-
11	a30_other	A30_other	discrete	numeric-10.0	0	382	-
12	conv_a28	area conversion rate for intercropped fields	continuous	numeric-9.0	381	1	-
13	cowpea a ..	cowpea area (acres) after adjusting for intercropping	continuous	numeric-9.0	381	1	-

Variables Description

Dataset contains 203 variable(s)

File : Ghana first fied day ranking data_public

hhid: household id

Information [Type= continuous] [Format=numeric] [Range= 13-9118] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-] [Mean=1019.238 /-] [StdDev=1912.598 /-]

villageid: village id

Information [Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*]

Statistics [NW/ W] [Valid=268 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1		35	13.1%
2		39	14.6%
3		31	11.6%
4		34	12.7%
6		32	11.9%
7		25	9.3%
8		33	12.3%
9		39	14.6%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x2: gender

Information [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]

Statistics [NW/ W] [Valid=268 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1	Male	118	44.0%
2	Female	150	56.0%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x3: farmer's age

Information [Type= continuous] [Format=numeric] [Range= 20-89] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-] [Mean=42.112 /-] [StdDev=14.126 /-]

x4a: # of hh member participating

Information [Type= discrete] [Format=numeric] [Range= 1-8] [Missing=*]

Statistics [NW/ W] [Valid=268 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1		127	47.4%
2		62	23.1%
3		38	14.2%
4		21	7.8%
5		15	5.6%
6		4	1.5%
8		1	0.4%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File : Ghana first fied day ranking data_public

x4b: main decision maker

Information [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]

Statistics [NW/ W] [Valid=268 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1	Yes	268	100.0%
2	No	0	
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x6_1: X6_1_ranking criteria_1st

Information [Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*]

Statistics [NW/ W] [Valid=268 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1	Yield/productivity	26	9.7%
2	Vigorous	70	26.1%
3	No disease	30	11.2%
4	Early maturity	19	7.1%
5	No climbing	1	0.4%
6	plant stand	46	17.2%
7	flower set	76	28.4%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x6_2: X6_2_ranking criteria_2nd

Information [Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*]

Statistics [NW/ W] [Valid=268 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1	Yield/productivity	17	6.3%
2	Vigorous	68	25.4%
3	No disease	24	9.0%
4	Early maturity	26	9.7%
5	No climbing	8	3.0%
6	plant stand	42	15.7%
7	flower set	83	31.0%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x6_3: X6_3_ranking criteria_3rd

Information [Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*]

Statistics [NW/ W] [Valid=268 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1	Yield/productivity	7	2.6%
2	Vigorous	32	11.9%
3	No disease	72	26.9%
4	Early maturity	24	9.0%
5	No climbing	29	10.8%

File : Ghana first fied day ranking data_public

x6_3: X6_3_ranking criteria_3rd

Value	Label	Cases	Percentage
6	plant stand	59	22.0%
7	flower set	45	16.8%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x7_1: X7_1_plot selected for_1st criteria

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=268 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
G		234	87.3%
L		26	9.7%
M		8	3.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x7_2: X7_2_plot selected for_2nd criteria

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=268 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
G		207	77.2%
L		45	16.8%
M		16	6.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x7_3: X7_3_plot selected for_3rd criteria

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=268 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
G		214	79.9%
L		18	6.7%
M		36	13.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

x8: Overall best plot

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=268 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
G		241	89.9%
L		21	7.8%
M		6	2.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File : Ghana hh level data_public

hhid: household id

Information [Type= continuous] [Format=numeric] [Range= 13-9118] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-] [Mean=1019.238 /-] [StdDev=1912.598 /-]

villageid: villageid

Information [Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1		35	13.0%
2		39	14.5%
3		31	11.5%
4		34	12.6%
6		32	11.9%
7		25	9.3%
8		33	12.3%
9		40	14.9%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

z0: 1=participated in field day 1

Information [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	269	100.0%
2	no	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

z1: 1=consented

Information [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	269	100.0%
2	no	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

z2: 1=decision maker

Information [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	yes	221	82.2%
2	no	48	17.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

z3: Acknowledgement note number

Information [Type= continuous] [Format=numeric] [Range= 1-148] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-] [Mean=54.316 /-] [StdDev=35.213 /-]

File : Ghana hh level data_public

z6: Gender

Information [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	male	121	45.0%
2	female	148	55.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

z7: farmer's age

Information [Type= continuous] [Format=numeric] [Range= 20-89] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-] [Mean=42.112 /-] [StdDev=14.126 /-]

z8: total number of hh members participating

Information [Type= discrete] [Format=numeric] [Range= 1-7] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1		130	48.3%
2		73	27.1%
3		30	11.2%
4		20	7.4%
5		9	3.3%
6		4	1.5%
7		3	1.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

z9: overall best plot

Information [Type= discrete] [Format=character] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
G		256	95.2%
L		11	4.1%
M		2	0.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

z10: why rated best plot

Information [Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	plants look healthy	18	6.7%
2	Pods have filled nicely	26	9.7%
3	higher yield	185	68.8%
4	good seed quality	40	14.9%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

z10_other: z10_other

Information [Type= discrete] [Format=numeric] [Missing=*]

Statistics [NW/ W] [Valid=0 /-] [Invalid=269 /-]

File : Ghana hh level data_public

z10_other: z10_other

Value	Label	Cases	Percentage
Sysmiss		269	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

z11: worst plot

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
G		1	0.4%
L		59	21.9%
M		209	77.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

z12: why rated plot worst?

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	plants look unhealthy	106	39.4%
2	Pods have not filled nicely	39	14.5%
3	lower yield	103	38.3%
4	poor seed quality	21	7.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

z12_other: z12_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=269 /-]

Value	Label	Cases	Percentage
Sysmiss		269	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a1: num of years of formal educ

Information	[Type= discrete] [Format=numeric] [Range= 0-15] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		167	62.1%
1		6	2.2%
2		7	2.6%
3		2	0.7%
4		9	3.3%
5		2	0.7%
6		9	3.3%
7		6	2.2%
8		2	0.7%
9		26	9.7%
10		6	2.2%

File : Ghana hh level data_public

a1: num of years of formal educ

Value	Label	Cases	Percentage
11		1	0.4%
12		12	4.5%
14		1	0.4%
15		13	4.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a2: Language literacy

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	No	199	74.0%
2	Yes, but not in kusaal nor english	10	3.7%
3	Yes, only in kusaal	7	2.6%
4	Yes, in english(regardless of others)	53	19.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a3a: household size

Information	[Type= continuous] [Format=numeric] [Range= 3-50] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=8.888 /-] [StdDev=4.937 /-]

a3b: HHsize_male

Information	[Type= discrete] [Format=numeric] [Range= 1-21] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1		12	4.5%
2		50	18.6%
3		60	22.3%
4		46	17.1%
5		37	13.8%
6		25	9.3%
7		14	5.2%
8		10	3.7%
9		5	1.9%
10		3	1.1%
11		2	0.7%
13		2	0.7%
14		1	0.4%
15		1	0.4%
21		1	0.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a3c: HHsize_female

Information	[Type= continuous] [Format=numeric] [Range= 1-29] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=4.554 /-] [StdDev=2.967 /-]

File : Ghana hh level data_public

a4a: num of hh members age <6

Information [Type= discrete] [Format=numeric] [Range= 0-10] [Missing=*]

Statistics [NW/ W] [Valid=263 /-] [Invalid=6 /-]

Value	Label	Cases	Percentage
0		54	20.5%
1		72	27.4%
2		75	28.5%
3		37	14.1%
4		16	6.1%
5		6	2.3%
6		1	0.4%
7		1	0.4%
10		1	0.4%
Sysmiss		6	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a4b: num of hh members age 6-17

Information [Type= discrete] [Format=numeric] [Range= 0-20] [Missing=*]

Statistics [NW/ W] [Valid=266 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
0		23	8.6%
1		40	15.0%
2		91	34.2%
3		52	19.5%
4		35	13.2%
5		9	3.4%
6		5	1.9%
7		5	1.9%
8		1	0.4%
9		1	0.4%
10		1	0.4%
12		1	0.4%
15		1	0.4%
20		1	0.4%
Sysmiss		3	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a4c: num of hh members age 18-65

Information [Type= discrete] [Format=numeric] [Range= 0-18] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		1	0.4%
1		9	3.3%
2		74	27.5%
3		59	21.9%

File : Ghana hh level data_public

a4c: num of hh members age 18-65

Value	Label	Cases	Percentage
4		38	14.1%
5		28	10.4%
6		16	5.9%
7		15	5.6%
8		15	5.6%
9		4	1.5%
10		2	0.7%
11		3	1.1%
12		2	0.7%
15		1	0.4%
16		1	0.4%
18		1	0.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a4d: num of hh members age >65

Information	[Type= discrete] [Format=numeric] [Range= 0-8] [Missing=*]
Statistics [NW/ W]	[Valid=253 /-] [Invalid=16 /-]

Value	Label	Cases	Percentage
0		163	64.4%
1		62	24.5%
2		20	7.9%
3		4	1.6%
4		2	0.8%
5		1	0.4%
8		1	0.4%
Systemmiss		16	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a5: do all children 5-17 attend school?

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=267 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1	Yes	182	68.2%
2	No	81	30.3%
3	No children 5-17	4	1.5%
Systemmiss		2	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a6: relationship to hh head

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	hh head	137	50.9%
2	Spouse	125	46.5%

File : Ghana hh level data_public

a6: relationship to hh head

Value	Label	Cases	Percentage
3	son/daughter	7	2.6%
4	other	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a6_other: a6_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=269 /-]

Value	Label	Cases	Percentage
Sysmiss		269	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a7: gender of hh head

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Male	231	85.9%
2	Female	38	14.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a8: marital status

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Married	237	88.1%
2	Separate/divorced/widower	30	11.2%
3	single	2	0.7%
99	other	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a9: spouse literacy status

Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	no	230	85.5%
2	Yes, but not in kusal	3	1.1%
3	yes, only in kusal	7	2.6%
4	Yes, in english	29	10.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a10: years lived in village

Information	[Type= continuous] [Format=numeric] [Range= 2-78] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=34.357 /-] [StdDev=16.24 /-]

a11: num of years planting cowpea

Information	[Type= continuous] [Format=numeric] [Range= 1-65] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=17.914 /-] [StdDev=14.472 /-]

File : Ghana hh level data_public

a12: frequency of seed purchase

Information [Type= discrete] [Format=numeric] [Range= 1-77] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	regular purchase	126	46.8%
2	purchase occasionally	130	48.3%
3	never purchased seed	13	4.8%
77	Don't know what seed is	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a13: highest price per kg paid for cowpea seed

Information [Type= continuous] [Format=numeric] [Range= 1-9] [Missing=*]

Statistics [NW/ W] [Valid=268 /-] [Invalid=1 /-] [Mean=4.646 /-] [StdDev=1.525 /-]

a14: year when last purchased cowpea seed

Information [Type= discrete] [Format=numeric] [Range= 2001-2016] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
2001		1	0.4%
2008		4	1.5%
2009		2	0.7%
2010		15	5.6%
2011		12	4.5%
2012		9	3.3%
2013		19	7.1%
2014		33	12.3%
2015		73	27.1%
2016		101	37.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a15a: price paid per kg for seed last time

Information [Type= continuous] [Format=numeric] [Range= 1-10] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-] [Mean=4.667 /-] [StdDev=1.579 /-]

a15b: total quantity of seed purchased

Information [Type= continuous] [Format=numeric] [Range= 1-15] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-] [Mean=5.226 /-] [StdDev=3.291 /-]

a16a: seed source of last purchase

Information [Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	farmer from local comm	22	8.2%
2	farmer organization	21	7.8%
3	seed vendor in mkt	193	71.7%
4	Input dealer	33	12.3%
5	seed company	0	

File : Ghana hh level data_public

a16a: seed source of last purchase

Value	Label	Cases	Percentage
6	other	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a16a_other: a16a_other

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=5 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
SARI		5	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a16b: type of seed last purchased

Information	[Type= discrete] [Format=numeric] [Range= 1-77] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	certified	31	11.5%
2	Non-certified but came in package	10	3.7%
3	came with no label	138	51.3%
77	Don't know	90	33.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a17: name of seed variety purchased

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=267 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
77		255	95.5%
88		1	0.4%
APAAGBALA		1	0.4%
APAGBALA		1	0.4%
BLACK EYE		1	0.4%
LOCAL VARIETY		1	0.4%
QDS		1	0.4%
SAADI		1	0.4%
SONGATRA		1	0.4%
SONGOTRA		4	1.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a18: total land area owned

Information	[Type= continuous] [Format=numeric] [Range= 1-25] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=5.597 /-] [StdDev=3.706 /-]

a19: land unit

Information	[Type= discrete] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

File : Ghana hh level data_public

a19: land unit

Value	Label	Cases	Percentage
1		269	100.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a19_other: relationship to hh head--other

Information	[Type= discrete] [Format=numeric] [Missing=*]
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Statistics [NW/ W]	[Valid=0 /-] [Invalid=269 /-]
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Value	Label	Cases	Percentage
Sysmiss		269	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a20: total land area cultivated all crops last season

Information	[Type= continuous] [Format=numeric] [Range= 1-20] [Missing=*]
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Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=4.924 /-] [StdDev=2.481 /-]
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a21: percentage of cowpea harvest sold

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
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Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]
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Value	Label	Cases	Percentage
1	0%	36	13.4%
2	<25%	48	17.8%
3	25-50%	154	57.2%
4	50-75%	28	10.4%
5	75-99%	2	0.7%
6	100%	1	0.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a22: percentage of hh income from cowpea sales

Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]
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Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]
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Value	Label	Cases	Percentage
1	0%	35	13.0%
2	<25%	5	1.9%
3	25-50%	70	26.0%
4	50-75%	136	50.6%
5	75-99%	21	7.8%
6	100%	2	0.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a23: last season when cowpea was grown

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
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Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]
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Value	Label	Cases	Percentage
1	Long season	242	90.0%
2	short(residual moisture)	26	9.7%
3	other	1	0.4%

File : Ghana hh level data_public

a23: last season when cowpea was grown

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a23_other: a23_other

Information [Type= discrete] [Format=numeric] [Missing=*]

Statistics [NW/ W] [Valid=0 /-] [Invalid=269 /-]

Value	Label	Cases	Percentage
Sysmiss		269	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a24: number of field plots planted to cowpea

Information [Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]

Statistics [NW/ W] [Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1		178	66.2%
2		74	27.5%
3		16	5.9%
4		1	0.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

# a31_1st: most important crop-area planted			
Information		[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]	
Statistics [NW/ W]		[Valid=269 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
1	maize	218	81.0%
2	rice	2	0.7%
3	sorghum	1	0.4%
4	cowpea	17	6.3%
5	sweet potato	1	0.4%
6	soybean	0	
7	groundnut	0	
8	cotton	0	
9	millet	29	10.8%
10	onion	0	
11	okra	1	0.4%
12	water melon	0	
99	other	0	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a31_2nd: 2nd most important crop-area planted			
Information		[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]	
Statistics [NW/ W]		[Valid=269 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
1	maize	39	14.5%
2	rice	3	1.1%
3	sorghum	2	0.7%
4	cowpea	126	46.8%
5	sweet potato	1	0.4%
6	soybean	12	4.5%
7	groundnut	1	0.4%
8	cotton	0	
9	millet	83	30.9%
10	onion	1	0.4%
11	okra	1	0.4%
12	water melon	0	
99	other	0	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a31_3rd: 3rd most important crop-area planted			
Information		[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]	
Statistics [NW/ W]		[Valid=269 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
1	maize	7	2.6%
2	rice	16	5.9%
3	sorghum	4	1.5%
4	cowpea	117	43.5%
5	sweet potato	0	

a31_3rd: 3rd most important crop-area planted

Value	Label	Cases	Percentage
6	soybean	35	13.0%
7	groundnut	1	0.4%
8	cotton	0	
9	millet	74	27.5%
10	onion	11	4.1%
11	okra	4	1.5%
12	water melon	0	
99	other	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a31_other: a31_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=269 /-]

Value	Label	Cases	Percentage
Sysmiss		269	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a32_1st: most important crop--purchased inputs

Information	[Type= discrete] [Format=numeric] [Range= 1-11] [Missing=*]
Statistics [NW/ W]	[Valid=268 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1		213	79.5%
4		46	17.2%
9		6	2.2%
10		2	0.7%
11		1	0.4%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a32_2nd: 2nd most important crop--purchased inputs

Information	[Type= discrete] [Format=numeric] [Range= 1-11] [Missing=*]
Statistics [NW/ W]	[Valid=267 /-] [Invalid=2 /-]

Value	Label	Cases	Percentage
1		44	16.5%
2		5	1.9%
3		2	0.7%
4		158	59.2%
5		1	0.4%
6		11	4.1%
9		41	15.4%
10		4	1.5%
11		1	0.4%
Sysmiss		2	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a32_3rd: 3rd most important crop--purchased inputs

Information	[Type= discrete] [Format=numeric] [Range= 1-11] [Missing=*]
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a32_3rd: 3rd most important crop--purchased inputs

Statistics [NW/ W] [Valid=260 /-] [Invalid=9 /-]

Value	Label	Cases	Percentage
1		6	2.3%
2		16	6.2%
3		4	1.5%
4		49	18.8%
5		1	0.4%
6		35	13.5%
7		1	0.4%
9		138	53.1%
10		6	2.3%
11		4	1.5%
Sysmiss		9	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a32_other: a32_other

Information [Type= discrete] [Format=numeric] [Missing=*]

Statistics [NW/ W] [Valid=0 /-] [Invalid=269 /-]

Value	Label	Cases	Percentage
Sysmiss		269	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a33_1st: most important crop-hh income

Information [Type= discrete] [Format=numeric] [Range= 1-11] [Missing=*]

Statistics [NW/ W] [Valid=266 /-] [Invalid=3 /-]

Value	Label	Cases	Percentage
1		53	19.9%
4		198	74.4%
6		6	2.3%
9		6	2.3%
10		2	0.8%
11		1	0.4%
Sysmiss		3	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a33_2nd: 2nd most important crop-hh income

Information [Type= discrete] [Format=numeric] [Range= 1-11] [Missing=*]

Statistics [NW/ W] [Valid=256 /-] [Invalid=13 /-]

Value	Label	Cases	Percentage
1		167	65.2%
2		11	4.3%
3		2	0.8%
4		19	7.4%
5		1	0.4%
6		22	8.6%
7		1	0.4%
9		24	9.4%

a33_2nd: 2nd most important crop-hh income

Value	Label	Cases	Percentage
10		6	2.3%
11		3	1.2%
Sysmiss		13	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a33_3rd: 3rd most important crop-hh income

Information	[Type= discrete] [Format=numeric] [Range= 1-11] [Missing=*]
Statistics [NW/ W]	[Valid=237 /-] [Invalid=32 /-]

Value	Label	Cases	Percentage
1		39	16.5%
2		10	4.2%
3		4	1.7%
4		14	5.9%
5		1	0.4%
6		18	7.6%
7		1	0.4%
9		145	61.2%
10		3	1.3%
11		2	0.8%
Sysmiss		32	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a33_other: a33_other

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=0 /-] [Invalid=269 /-]

Value	Label	Cases	Percentage
Sysmiss		269	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a34: how many cowpea variety planted in last season

Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1		216	80.3%
2		51	19.0%
3		2	0.7%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a35a: name of variety 1

Information	[Type= discrete] [Format=character] [Missing=*]
Statistics [NW/ W]	[Valid=268 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
APAAGBALA		1	0.4%
APAGBALA		2	0.7%
BLACK EYE		5	1.9%
CERTIFIED		1	0.4%

# a35a: name of variety 1			
Value	Label	Cases	Percentage
DONâ€™T KNOW		1	0.4%
GRAIN		9	3.4%
LOCAL VARIETY		189	70.5%
QDS		53	19.8%
SOGOTRA		1	0.4%
SONGOTRA		6	2.2%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a35b: source of variety 1			
Information	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
1	saved from own harvest	79	29.4%
2	purchased as grain from others/mkt	37	13.8%
3	purchased as seed from others/mkt	138	51.3%
4	NGO's or Govt. program	15	5.6%
5	other	0	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a36a: name of variety 2			
Information	[Type= discrete] [Format=character] [Missing=*]		
Statistics [NW/ W]	[Valid=52 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
BLACK EYE		2	3.8%
BROWN EYE		1	1.9%
CERTIFIED		2	3.8%
LOCAL		1	1.9%
LOCAL VARIETY		29	55.8%
QDS		17	32.7%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a36b: source of variety 2			
Information	[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]		
Statistics [NW/ W]	[Valid=52 /-] [Invalid=217 /-]		
Value	Label	Cases	Percentage
1	saved from own harvest	14	26.9%
2	purchased as grain from others/mkt	3	5.8%
3	purchased as seed from others/mkt	33	63.5%
4	NGO's or Govt. program	2	3.8%
5	other	0	
Sysmiss		217	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a37a: name of variety 3			
Information	[Type= discrete] [Format=character] [Missing=*]		

# a37a: name of variety 3			
Statistics [NW/ W]		[Valid=2 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
LOCAL VARIETY		1	50.0%
QDS		1	50.0%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a37b: source of variety 3			
Information		[Type= discrete] [Format=numeric] [Range= 1-5] [Missing=*]	
Statistics [NW/ W]		[Valid=2 /-] [Invalid=267 /-]	
Value	Label	Cases	Percentage
1	saved from own harvest	1	50.0%
2	purchased as grain from others/mkt	0	
3	purchased as seed from others/mkt	1	50.0%
4	NGO's or Govt. program	0	
5	other	0	
Sysmiss		267	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a38a: do you have access to certified seed-any crop?			
Information		[Type= discrete] [Format=numeric] [Range= 1-88] [Missing=*]	
Statistics [NW/ W]		[Valid=267 /-] [Invalid=2 /-]	
Value	Label	Cases	Percentage
1	Yes	72	27.0%
2	No	191	71.5%
88	Don't know certified seed	4	1.5%
Sysmiss		2	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a38b: do you have access to QDS seed any crop?			
Information		[Type= discrete] [Format=numeric] [Range= 1-88] [Missing=*]	
Statistics [NW/ W]		[Valid=265 /-] [Invalid=4 /-]	
Value	Label	Cases	Percentage
1	Yes	117	44.2%
2	No	143	54.0%
88	Don't know certified seed	5	1.9%
Sysmiss		4	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a39a: have you ever purchased certified seed - any crop?			
Information		[Type= discrete] [Format=numeric] [Range= 1-88] [Missing=*]	
Statistics [NW/ W]		[Valid=267 /-] [Invalid=2 /-]	
Value	Label	Cases	Percentage
1	Yes	51	19.1%
2	No	211	79.0%
88	Don't know quality declared seed	5	1.9%
Sysmiss		2	

# a39a: have you ever purchased certified seed - any crop?			
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a39b: have you ever purchased QDS seed - any crop?			
Information		[Type= discrete] [Format=numeric] [Range= 1-88] [Missing=*]	
Statistics [NW/ W]		[Valid=265 /-] [Invalid=4 /-]	
Value	Label	Cases	Percentage
1	Yes	101	38.1%
2	No	158	59.6%
88	Don't know certified seed	6	2.3%
System		4	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a40a_crop1: crop 1 for which used certified seed			
Information		[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]	
Statistics [NW/ W]		[Valid=51 /-] [Invalid=218 /-]	
Value	Label	Cases	Percentage
1		31	60.8%
2		1	2.0%
4		19	37.3%
System		218	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a40a_crop2: crop 2 for which used certified seed			
Information		[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]	
Statistics [NW/ W]		[Valid=33 /-] [Invalid=236 /-]	
Value	Label	Cases	Percentage
1	maize	8	24.2%
2	rice	0	
3	sorghum	0	
4	cowpea	22	66.7%
5	sweet potato	0	
6	soybean	1	3.0%
7	groundnut	0	
8	cotton	1	3.0%
9	millet	0	
10	onion	1	3.0%
11	okra	0	
12	water melon	0	
99	other	0	
System		236	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a40a_crop3: crop 3 for which used certified seed			
Information		[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]	
Statistics [NW/ W]		[Valid=12 /-] [Invalid=257 /-]	
Value	Label	Cases	Percentage
1	maize	0	

# a40a_crop3: crop 3 for which used certified seed			
Value	Label	Cases	Percentage
2	rice	2	16.7%
3	sorghum	0	
4	cowpea	1	8.3%
5	sweet potato	0	
6	soybean	3	25.0%
7	groundnut	0	
8	cotton	0	
9	millet	5	41.7%
10	onion	1	8.3%
11	okra	0	
12	water melon	0	
99	other	0	
Sysmiss		257	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a40b_crop1: crop 1 for which used QDS			
Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=100 /-] [Invalid=169 /-]		
Value	Label	Cases	Percentage
1	maize	65	65.0%
2	rice	1	1.0%
3	sorghum	0	
4	cowpea	28	28.0%
5	sweet potato	1	1.0%
6	soybean	4	4.0%
7	groundnut	0	
8	cotton	0	
9	millet	1	1.0%
10	onion	0	
11	okra	0	
12	water melon	0	
99	other	0	
Sysmiss		169	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a40b_crop2: crop 2 for which used QDS			
Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=78 /-] [Invalid=191 /-]		
Value	Label	Cases	Percentage
1	maize	16	20.5%
2	rice	3	3.8%
3	sorghum	0	
4	cowpea	50	64.1%
5	sweet potato	0	
6	soybean	6	7.7%
7	groundnut	0	

# a40b_crop2: crop 2 for which used QDS			
Value	Label	Cases	Percentage
8	cotton	0	
9	millet	2	2.6%
10	onion	0	
11	okra	1	1.3%
12	water melon	0	
99	other	0	
Sysmiss		191	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a40b_crop3: crop 3 for which used QDS			
Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=47 /-] [Invalid=222 /-]		
Value	Label	Cases	Percentage
1	maize	1	2.1%
2	rice	6	12.8%
3	sorghum	1	2.1%
4	cowpea	4	8.5%
5	sweet potato	0	
6	soybean	16	34.0%
7	groundnut	0	
8	cotton	0	
9	millet	10	21.3%
10	onion	5	10.6%
11	okra	4	8.5%
12	water melon	0	
99	other	0	
Sysmiss		222	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a41a_1: most imp advantage of using certified seed			
Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=50 /-] [Invalid=219 /-]		
Value	Label	Cases	Percentage
1	high germination rate	12	24.0%
2	less disease and pest problem	4	8.0%
3	Uniformity in plant growth	1	2.0%
4	high quality grain at harvest	0	
5	high yield	33	66.0%
88	have not used seed type,don't know	0	
99	other	0	
Sysmiss		219	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a41a_2: 2nd most imp advantage of using certified seed			
Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=50 /-] [Invalid=219 /-]		

# a41a_2: 2nd most imp advantage of using certified seed			
Value	Label	Cases	Percentage
1	high germination rate	31	62.0%
2	less disease and pest problem	8	16.0%
3	Uniformity in plant growth	0	
4	high quality grain at harvest	2	4.0%
5	high yield	9	18.0%
88	have not used seed type,don't know	0	
99	other	0	
Sysmiss		219	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a41b_1: most imp advantage of using QDS			
Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=100 /-] [Invalid=169 /-]		
Value	Label	Cases	Percentage
1	high germination rate	18	18.0%
2	less disease and pest problem	2	2.0%
3	Uniformity in plant growth	3	3.0%
4	high quality grain at harvest	11	11.0%
5	high yield	66	66.0%
88	have not used seed type,don't know	0	
99	other	0	
Sysmiss		169	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# a41b_2: 2nd most imp advantage of using QDS			
Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=100 /-] [Invalid=169 /-]		
Value	Label	Cases	Percentage
1	high germination rate	60	60.0%
2	less disease and pest problem	7	7.0%
3	Uniformity in plant growth	2	2.0%
4	high quality grain at harvest	13	13.0%
5	high yield	18	18.0%
88	have not used seed type,don't know	0	
99	other	0	
Sysmiss		169	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b1_0: farmer has never left village			
Information	[Type= discrete] [Format=numeric] [Range= 0-2] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		265	98.5%
1	Yes	4	1.5%
2	No	0	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			

# b1_1: farthest travel= another village in district			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=261 /-] [Invalid=8 /-]	
Value	Label	Cases	Percentage
1	Yes	261	100.0%
2	No	0	
Sysmiss		8	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b1_2: farthest travel= another other part of Ghana			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=235 /-] [Invalid=34 /-]	
Value	Label	Cases	Percentage
1	Yes	234	99.6%
2	No	1	0.4%
Sysmiss		34	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b1_3: farthest travel= another African country			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=64 /-] [Invalid=205 /-]	
Value	Label	Cases	Percentage
1	Yes	64	100.0%
2	No	0	
Sysmiss		205	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b1_4: farthest travel= Middleast			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=5 /-] [Invalid=264 /-]	
Value	Label	Cases	Percentage
1	Yes	5	100.0%
2	No	0	
Sysmiss		264	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b1_5: farthest travel= US_canada			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=0 /-] [Invalid=269 /-]	
Value	Label	Cases	Percentage
1	Yes	0	
2	No	0	
Sysmiss		269	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b1_other: b1_other			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=0 /-] [Invalid=269 /-]	

b1_other: b1_other

Value	Label	Cases	Percentage
1	Yes	0	
2	No	0	
Sysmiss		269	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

b10a: main reason not replace seed_1

Information	[Type= discrete] [Format=numeric] [Range= 1-8] [Missing=*]
Statistics [NW/ W]	[Valid=100 /-] [Invalid=169 /-]

Value	Label	Cases	Percentage
1	maintain quality seeds	59	59.0%
2	no advantage in buying fresh seeds	8	8.0%
3	too expensive	20	20.0%
4	don't trust seed frm outside	10	10.0%
5	seed not available	2	2.0%
6	prefered variety not available	1	1.0%
7	large packs than i need	0	
8	other	0	
Sysmiss		169	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

b10b: main reason not replace seed_2

Information	[Type= discrete] [Format=numeric] [Range= 1-8] [Missing=*]
Statistics [NW/ W]	[Valid=49 /-] [Invalid=220 /-]

Value	Label	Cases	Percentage
1	maintain quality seeds	6	12.2%
2	no advantage in buying fresh seeds	16	32.7%
3	too expensive	15	30.6%
4	don't trust seed frm outside	7	14.3%
5	seed not available	4	8.2%
6	prefered variety not available	1	2.0%
7	large packs than i need	0	
8	other	0	
Sysmiss		220	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

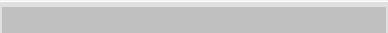
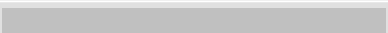
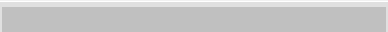
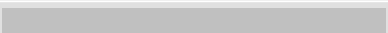
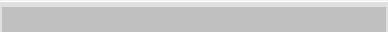
b10c: main reason not replace seed_3

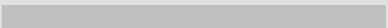
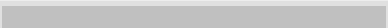
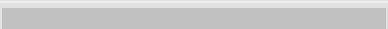
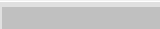
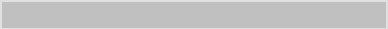

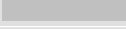



Information	[Type= discrete] [Format=numeric] [Range= 1-8] [Missing=*]
Statistics [NW/ W]	[Valid=17 /-] [Invalid=252 /-]

Value	Label	Cases	Percentage
1	maintain quality seeds	4	23.5%
2	no advantage in buying fresh seeds	8	47.1%
3	too expensive	2	11.8%
4	don't trust seed frm outside	2	11.8%
5	seed not available	0	
6	prefered variety not available	1	5.9%
7	large packs than i need	0	

# b10c: main reason not replace seed_3			
Value	Label	Cases	Percentage
8	other	0	
Sysmiss		252	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b11_other: b11_other			
Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=13 /-] [Invalid=256 /-]		
Value	Label	Cases	Percentage
1	Don't have any seed left	1	7.7%
2	to try new variety	2	15.4%
3	get disease free planting material	4	30.8%
4	Don't have seed storage facility	5	38.5%
5	given by govt.program or NGO's or research inst.	1	7.7%
99	other	0	
Sysmiss		256	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b11a: main reason replace seed_1			
Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=223 /-] [Invalid=46 /-]		
Value	Label	Cases	Percentage
1	Don't have any seed left	83	37.2%
2	to try new variety	43	19.3%
3	get disease free planting material	47	21.1%
4	Don't have seed storage facility	45	20.2%
5	given by govt.program or NGO's or research inst.	5	2.2%
99	other	0	
Sysmiss		46	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b11b: main reason replace seed_2			
Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=156 /-] [Invalid=113 /-]		
Value	Label	Cases	Percentage
1	Don't have any seed left	45	28.8%
2	to try new variety	38	24.4%
3	get disease free planting material	41	26.3%
4	Don't have seed storage facility	26	16.7%
5	given by govt.program or NGO's or research inst.	5	3.2%
6		1	0.6%
99	other	0	
Sysmiss		113	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b2: year hh last adopted a new input / practice			
Information	[Type= continuous] [Format=numeric] [Range= 1993-2016] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=2012.346 /-] [StdDev=2.899 /-]		

# b3_1: last adopted input was=new seed variety			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=173 /-] [Invalid=96 /-]	
Value	Label	Cases	Percentage
1	Yes	173	100.0%
2	No	0	
Sysmiss		96	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b3_10: last adopted input was=drying_processing			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=3 /-] [Invalid=266 /-]	
Value	Label	Cases	Percentage
1	Yes	3	100.0%
2	No	0	
Sysmiss		266	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b3_2: last adopted input was=Agrochemical			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=220 /-] [Invalid=49 /-]	
Value	Label	Cases	Percentage
1	Yes	219	99.5%
2	No	1	0.5%
Sysmiss		49	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			

# b3_3: last adopted input was=New animal breed			
Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
Statistics [NW/ W]	[Valid=25 /-] [Invalid=244 /-]		
Value	Label	Cases	Percentage
1	Yes	25	 100.0%
2	No	0	
Sysmiss		244	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b3_4: last adopted input was=agronomic practices			
Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
Statistics [NW/ W]	[Valid=77 /-] [Invalid=192 /-]		
Value	Label	Cases	Percentage
1	Yes	77	 100.0%
2	No	0	
Sysmiss		192	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b3_5: last adopted input was= Soil conservation			
Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
Statistics [NW/ W]	[Valid=28 /-] [Invalid=241 /-]		
Value	Label	Cases	Percentage
1	Yes	28	 100.0%
2	No	0	
Sysmiss		241	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b3_6: last adopted input was= conservation agriculture			
Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
Statistics [NW/ W]	[Valid=3 /-] [Invalid=266 /-]		
Value	Label	Cases	Percentage
1	Yes	3	 100.0%
2	No	0	
Sysmiss		266	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b3_7: last adopted input was= Machinery_tools			
Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
Statistics [NW/ W]	[Valid=60 /-] [Invalid=209 /-]		
Value	Label	Cases	Percentage
1	Yes	60	 100.0%
2	No	0	
Sysmiss		209	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b3_8: last adopted input was=storage methods			
Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
Statistics [NW/ W]	[Valid=43 /-] [Invalid=226 /-]		

# b3_8: last adopted input was=storage methods			
Value	Label	Cases	Percentage
1	Yes	43	 100.0%
2	No	0	
Sysmiss		226	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b3_9: last adopted input was=monocropping			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=29 /-] [Invalid=240 /-]	
Value	Label	Cases	Percentage
1	Yes	29	 100.0%
2	No	0	
Sysmiss		240	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b4: ever used hybrid seed			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=269 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
1	Yes	2	0.7%
2	No	267	 99.3%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b5: ever stopped cowpea variety because of seed constraint			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=269 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
1	Yes	79	 29.4%
2	No	190	 70.6%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b6_other: b6_other			
Information		[Type= discrete] [Format=numeric] [Missing=*]	
Statistics [NW/ W]		[Valid=0 /-] [Invalid=269 /-]	
Value	Label	Cases	Percentage
Sysmiss		269	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b6a: major farming constraint			
Information		[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]	
Statistics [NW/ W]		[Valid=268 /-] [Invalid=1 /-]	
Value	Label	Cases	Percentage
1	Land	13	 4.9%
2	Labour	41	 15.3%
3	cash constraint	76	 28.4%
4	seeds of preferred varieties not avail.	10	 3.7%
5	insects and disease problem	126	 47.0%

# b6a: major farming constraint			
Value	Label	Cases	Percentage
6	cannot sell the crop	0	
7	price too low	1	0.4%
8	no information on farming practices	1	0.4%
99	others	0	
Sysmiss		1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b6b: second farming constraint			
Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=268 /-] [Invalid=1 /-]		
Value	Label	Cases	Percentage
1	Land	22	8.2%
2	Labour	78	29.1%
3	cash constraint	90	33.6%
4	seeds of preferred varieties not avail.	21	7.8%
5	insects and disease problem	33	12.3%
6	cannot sell the crop	0	
7	price too low	1	0.4%
8	no information on farming practices	23	8.6%
99	others	0	
Sysmiss		1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b7: cowpea grain price if sold			
Information	[Type= discrete] [Format=numeric] [Range= 2.3-9999] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
2.3		1	0.4%
2.4		1	0.4%
2.8		5	1.9%
3		7	2.6%
3.2		25	9.3%
3.6		4	1.5%
4		97	36.1%
4.4		14	5.2%
4.6		1	0.4%
4.8		14	5.2%
5		21	7.8%
5.2		2	0.7%
5.6		8	3.0%
6		24	8.9%
6.5		1	0.4%
6.6		1	0.4%
6.7		2	0.7%
7		3	1.1%
8		26	9.7%

# b7: cowpea grain price if sold			
Value	Label	Cases	Percentage
8.4		6	2.2%
8.8		1	0.4%
10		2	0.7%
9999	Don't know	3	1.1%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b8: buying price of cowpea per kg			
Information	[Type= discrete] [Format=numeric] [Range= 2.4-9999] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
2.4		1	0.4%
2.8		5	1.9%
3		7	2.6%
3.2		22	8.2%
3.6		3	1.1%
3.8		1	0.4%
4		100	37.2%
4.4		14	5.2%
4.6		1	0.4%
4.8		14	5.2%
5		19	7.1%
5.2		2	0.7%
5.6		8	3.0%
6		23	8.6%
6.5		1	0.4%
6.6		1	0.4%
6.7		2	0.7%
7		4	1.5%
8		27	10.0%
8.4		6	2.2%
8.8		1	0.4%
10		2	0.7%
9999	Don't know	5	1.9%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# b9: Frequency of seed purchase			
Information	[Type= discrete] [Format=numeric] [Range= 1-6] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
1	every year	165	61.3%
2	every other year	31	11.5%
3	every 3-5 years	37	13.8%
4	5-10 years	10	3.7%
5	more than 10 years	13	4.8%
6	never	13	4.8%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			

# c1: belong to a farmer group			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=269 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
1	Yes	91	33.8%
2	No	178	66.2%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# c2: level of involvement in group			
Information		[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]	
Statistics [NW/ W]		[Valid=95 /-] [Invalid=174 /-]	
Value	Label	Cases	Percentage
1	very active	76	80.0%
2	somewhat active	11	11.6%
3	not active	8	8.4%
Sysmiss		174	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# c3: are you a leader of any group			
Information		[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]	
Statistics [NW/ W]		[Valid=96 /-] [Invalid=173 /-]	
Value	Label	Cases	Percentage
1	Yes	30	31.2%
2	No	66	68.8%
Sysmiss		173	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# c4a: number owned- bicycle			
Information		[Type= discrete] [Format=numeric] [Range= 0-9] [Missing=*]	
Statistics [NW/ W]		[Valid=268 /-] [Invalid=1 /-]	
Value	Label	Cases	Percentage
0		32	11.9%
1		71	26.5%
2		76	28.4%
3		37	13.8%
4		32	11.9%
5		11	4.1%
6		4	1.5%
7		4	1.5%
9		1	0.4%
Sysmiss		1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# c4b: number owned- motorcycle_car			
Information		[Type= discrete] [Format=numeric] [Range= 0-4] [Missing=*]	
Statistics [NW/ W]		[Valid=268 /-] [Invalid=1 /-]	
Value	Label	Cases	Percentage
0		195	72.8%

c4b: number owned- motorcycle_car

Value	Label	Cases	Percentage
1		53	19.8%
2		17	6.3%
3		2	0.7%
4		1	0.4%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

c4c: number owned-Iron_box_electric

Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]
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Statistics [NW/ W]	[Valid=268 /-] [Invalid=1 /-]
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Value	Label	Cases	Percentage
0		145	54.1%
1		103	38.4%
2		16	6.0%
3		4	1.5%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

c4d: number owned-mobilephone

Information	[Type= discrete] [Format=numeric] [Range= 0-20] [Missing=*]
--------------------	---

Statistics [NW/ W]	[Valid=268 /-] [Invalid=1 /-]
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Value	Label	Cases	Percentage
0		38	14.2%
1		66	24.6%
2		68	25.4%
3		47	17.5%
4		17	6.3%
5		17	6.3%
6		7	2.6%
7		3	1.1%
8		1	0.4%
10		3	1.1%
20		1	0.4%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

c4e: number owned- television

Information	[Type= discrete] [Format=numeric] [Range= 0-13] [Missing=*]
--------------------	---

Statistics [NW/ W]	[Valid=268 /-] [Invalid=1 /-]
---------------------------	-------------------------------

Value	Label	Cases	Percentage
0		206	76.9%
1		51	19.0%
2		7	2.6%
3		2	0.7%
5		1	0.4%
13		1	0.4%

# c4e: number owned- television			
Value	Label	Cases	Percentage
Sysmiss		1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# c4f: number owned-video playe ripod dish			
Information	[Type= discrete] [Format=numeric] [Range= 0-2] [Missing=*]		
Statistics [NW/ W]	[Valid=268 /-] [Invalid=1 /-]		
Value	Label	Cases	Percentage
0		226	84.3%
1		36	13.4%
2		6	2.2%
Sysmiss		1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# c5: main fuel source			
Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
1	none, no cooking	3	1.1%
2	wood,crop residual, sawdust	257	95.5%
3	charcoal or kerosine	8	3.0%
4	Gas or electricity	1	0.4%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# c6: Outer wall material			
Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
Statistics [NW/ W]	[Valid=268 /-] [Invalid=1 /-]		
Value	Label	Cases	Percentage
1	Mud bricks/earth,wood,bamboo	252	94.0%
2	cement/concrete blocks,stone or bricks	16	6.0%
Sysmiss		1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# c7: type of toilet facility			
Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]		
Statistics [NW/ W]	[Valid=268 /-] [Invalid=1 /-]		
Value	Label	Cases	Percentage
1	no toilet facility(bush)	169	63.1%
2	pit latrine,bucket/pan	51	19.0%
3	public toilet(eg.W.C,KVIP)	31	11.6%
4	KVIP, or W.C	17	6.3%
Sysmiss		1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# c8: Adoption behavior			
Information	[Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		

# c8: Adoption behavior			
Value	Label	Cases	Percentage
1	I am first one to adopt	106	39.4%
2	I wait till few have adopted	85	31.6%
3	I wait till most people have adopted	63	23.4%
4	I rarely change my practices	15	5.6%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# bid_m: bid for plot M			
Information	[Type= continuous] [Format=numeric] [Range= 1-10] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=4.908 /-] [StdDev=2.197 /-]		
# bid_g: bid for plot G			
Information	[Type= continuous] [Format=numeric] [Range= 2-10] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=7.193 /-] [StdDev=2.163 /-]		
# bid_l: bid for plot L			
Information	[Type= continuous] [Format=numeric] [Range= 1-10] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=5.272 /-] [StdDev=2.114 /-]		
# random_price: Random price drawn			
Information	[Type= continuous] [Format=numeric] [Range= 0.600000023841858-8.69999980926514] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=5.137 /-] [StdDev=2.837 /-]		
# qtykg: qty willing to purchase at the WTP price (kg)			
Information	[Type= discrete] [Format=numeric] [Range= 1-12] [Missing=*]		
Statistics [NW/ W]	[Valid=148 /-] [Invalid=121 /-]		
Value	Label	Cases	Percentage
1		4	2.7%
2		35	23.6%
3		39	26.4%
4		26	17.6%
5		21	14.2%
6		6	4.1%
7		3	2.0%
8		3	2.0%
10		9	6.1%
11		1	0.7%
12		1	0.7%
Sysmiss		121	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# Harvest_bestplot: Best plot at harvest			
Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
1		256	95.2%
2		11	4.1%
3		2	0.7%

# Harvest_bestplot: Best plot at harvest			
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# Harvest_worstplot: worst plot at harvest			
Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
1		1	0.4%
2		59	21.9%
3		209	77.7%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# povertyscore1: members of the household			
Information	[Type= continuous] [Format=numeric] [Range= 0-21] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=4.483 /-] [StdDev=5.584 /-]		
# povertyscore2: hh members between 5-17 attending school?			
Information	[Type= discrete] [Format=numeric] [Range= 0-3] [Missing=*]		
Statistics [NW/ W]	[Valid=267 /-] [Invalid=2 /-]		
Value	Label	Cases	Percentage
0		81	30.3%
2		182	68.2%
3		4	1.5%
Sysmiss		2	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# povertyscore3: Can hh head/spouse read a phrase in english?			
Information	[Type= discrete] [Format=numeric] [Range= 0-5] [Missing=*]		
Statistics [NW/ W]	[Valid=222 /-] [Invalid=47 /-]		
Value	Label	Cases	Percentage
0		189	85.1%
2		10	4.5%
5		23	10.4%
Sysmiss		47	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# povertyscore4: Main construction materials			
Information	[Type= discrete] [Format=numeric] [Range= 0-5] [Missing=*]		
Statistics [NW/ W]	[Valid=268 /-] [Invalid=1 /-]		
Value	Label	Cases	Percentage
0		252	94.0%
5		16	6.0%
Sysmiss		1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# povertyscore5: Toilet facility			
Information	[Type= discrete] [Format=numeric] [Range= 0-6] [Missing=*]		
Statistics [NW/ W]	[Valid=268 /-] [Invalid=1 /-]		

# povertyscore5: Toilet facility			
Value	Label	Cases	Percentage
0		169	63.1%
4		82	30.6%
6		17	6.3%
Sysmiss		1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# povertyscore6: Main source of fuel			
Information	[Type= continuous] [Format=numeric] [Range= 0-22] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=6.201 /-] [StdDev=1.667 /-]		
# povertyscore7: hh own a working iron, box or electric			
Information	[Type= discrete] [Format=numeric] [Range= 0-4] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		145	53.9%
4		124	46.1%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# povertyscore8: hh own television, videoplayer, VCD?			
Information	[Type= discrete] [Format=numeric] [Range= 0-8] [Missing=*]		
Statistics [NW/ W]	[Valid=268 /-] [Invalid=1 /-]		
Value	Label	Cases	Percentage
0		115	42.9%
4		29	10.8%
8		124	46.3%
Sysmiss		1	
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# povertyscore9: number of working mobilephones			
Information	[Type= discrete] [Format=numeric] [Range= 0-10] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		38	14.1%
4		66	24.5%
8		68	25.3%
10		97	36.1%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# povertyscore10: Any hh member own bicycle or motorcycle or car?			
Information	[Type= discrete] [Format=numeric] [Range= 0-8] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		28	10.4%
3		167	62.1%
8		74	27.5%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			

# povertyscore: poverty score for household	
Information	[Type= continuous] [Format=numeric] [Range= 7-69] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=31.115 /-] [StdDev=11.83 /-]
# highratedseed: seed type rated as high	
Information	[Type= continuous] [Format=numeric] [Range= 2-10] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=7.18 /-] [StdDev=2.173 /-]
# lowratedseed: seed type rated as low	
Information	[Type= continuous] [Format=numeric] [Range= 1-10] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=4.883 /-] [StdDev=2.049 /-]
# prem_best_worst: prem price WTP for best seed/worst seed	
Information	[Type= continuous] [Format=numeric] [Range= 0.266666680574417-8] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=1.69 /-] [StdDev=0.872 /-]
# pr_best: WTP for best rated plot (GHC/kg)	
Information	[Type= continuous] [Format=numeric] [Range= 2-10] [Missing=*]
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=7.18 /-] [StdDev=2.173 /-]

# pr_worst: WTP for worst rated plot (GHC/kg)			
Information	[Type= continuous] [Format=numeric] [Range= 1-10] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=4.883 /-] [StdDev=2.049 /-]		
# prem_best_worst1: percent prem WTP for best seed/worst seed without zero and negative			
Information	[Type= continuous] [Format=numeric] [Range= 1.08333337306976-8] [Missing=*]		
Statistics [NW/ W]	[Valid=226 /-] [Invalid=43 /-] [Mean=1.853 /-] [StdDev=0.856 /-]		
# bestplot: overall best plot			
Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
1	certified	256	95.2%
2	QDS	11	4.1%
3	recycled	2	0.7%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# worstplot: worst plot			
Information	[Type= discrete] [Format=numeric] [Range= 1-3] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
1	certified	1	0.4%
2	QDS	59	21.9%
3	recycled	209	77.7%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# WTP_premium: WTP premium for high rated seed over low rated seed			
Information	[Type= continuous] [Format=numeric] [Range= 0-3] [Missing=*]		
Statistics [NW/ W]	[Valid=240 /-] [Invalid=29 /-] [Mean=0.69 /-] [StdDev=0.599 /-]		
# farmergroup1: do you belong to any farmer group/org?			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		178	66.2%
1		91	33.8%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# totalareaplanted: Total land area planted to cowpea			
Information	[Type= continuous] [Format=numeric] [Range= 0-4] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-] [Mean=1.301 /-] [StdDev=0.759 /-]		
# formaleduc1: do you have formal education?			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		167	62.1%
1		102	37.9%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			

# gender2: Dummy for male respondent			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		151	56.1%
1		118	43.9%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# hybridseed2: Dummy for hybrid seed usage			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		267	99.3%
1		2	0.7%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# adoptionbehavior1: First to adopt new technologies			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		163	60.6%
1		106	39.4%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# literacy1: Can read/write in english and other languages			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		199	74.0%
1		70	26.0%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# incomefromsales1: more than 50% of hh income came from cowpea sales			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		110	40.9%
1		159	59.1%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# Grain_pprice: Grain price reported by farmers			
Information	[Type= continuous] [Format=numeric] [Range= 2-3.79999995231628] [Missing=*]		
Statistics [NW/ W]	[Valid=264 /-] [Invalid=5 /-] [Mean=2.806 /-] [StdDev=0.402 /-]		
# lastadoptionyear: dummy for inputs and new farm practice adoption in the last 7years			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		

# lastadoptionyear: dummy for inputs and new farm practice adoption in the last 7years			
Value	Label	Cases	Percentage
0		26	9.7%
1		243	90.3%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# usedcertified: ever used certified seeds of any crop			
Information		[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]	
Statistics [NW/ W]		[Valid=269 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
0		218	81.0%
1		51	19.0%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# Cowpeaseedsource1: Saved from own harvest			
Information		[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]	
Statistics [NW/ W]		[Valid=269 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
0		176	65.4%
1		93	34.6%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# Cowpeaseedsource2: Purchased as seed/grain from market			
Information		[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]	
Statistics [NW/ W]		[Valid=269 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
0		80	29.7%
1		189	70.3%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# Purchasedinputs: Cowpea important in terms of Purchased inputs devoted for production			
Information		[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]	
Statistics [NW/ W]		[Valid=269 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
0		223	82.9%
1		46	17.1%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# Yield_area: Total yield per acre			
Information		[Type= continuous] [Format=numeric] [Range= 11.1999998092651-981] [Missing=*]	
Statistics [NW/ W]		[Valid=264 /-] [Invalid=5 /-] [Mean=249.094 /-] [StdDev=177.204 /-]	
# regularpurchasers: Regular and occasional seed purchasers			
Information		[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]	
Statistics [NW/ W]		[Valid=269 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
0		143	53.2%
1		126	46.8%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			

# frequentseedspurchaser: hh that acquire or purchase fresh seeds frequently			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		73	27.1%
1		196	72.9%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# occasionalseedspurchaser: hh that purchase seeds every three to ten years			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		209	77.7%
1		60	22.3%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# neverseedspurchaser: hh that has never acquire or purchased fresh cowpea seeds for planting			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		256	95.2%
1		13	4.8%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# usedQDS: ever used QDS of any crop			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		168	62.5%
1		101	37.5%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# usedcertifiedcowpea: ever used certified cowpea seed			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		227	84.4%
1		42	15.6%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			
# usedQDScowpea: used QD cowpea seed			
Information	[Type= discrete] [Format=numeric] [Range= 0-1] [Missing=*]		
Statistics [NW/ W]	[Valid=269 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		187	69.5%
1		82	30.5%
<i>Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.</i>			

File : Ghana field_level_data A25-A30_2_public

hhid: household id

Information [Type= continuous] [Format=numeric] [Range= 13-9118] [Missing=*]

Statistics [NW/ W] [Valid=382 /-] [Invalid=0 /-] [Mean=1041.393 /-] [StdDev=1985.177 /-]

villageid: village id

Information [Type= discrete] [Format=numeric] [Range= 1-9] [Missing=*]

Statistics [NW/ W] [Valid=382 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1		48	12.6%
2		46	12.0%
3		49	12.8%
4		53	13.9%
6		39	10.2%
7		30	7.9%
8		49	12.8%
9		68	17.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

f0: field id

Information [Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]

Statistics [NW/ W] [Valid=381 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1		269	70.6%
2		94	24.7%
3		17	4.5%
4		1	0.3%
Systemiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a25: tot area of this field

Information [Type= continuous] [Format=numeric] [Range= 0.1-4] [Missing=*]

Statistics [NW/ W] [Valid=382 /-] [Invalid=0 /-] [Mean=1.106 /-] [StdDev=0.493 /-]

a26: Units

Information [Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]

Statistics [NW/ W] [Valid=382 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	acres	382	100.0%
2	hectares	0	
99	other	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a26_other: A26_other

Information [Type= discrete] [Format=numeric] [Missing=*]

Statistics [NW/ W] [Valid=0 /-] [Invalid=382 /-]

Value	Label	Cases	Percentage
Systemiss		382	

File : Ghana field_level_data A25-A30_2_public

a26_other: A26_other

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a27: were cowpea inter-cropped?

Information [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]

Statistics [NW/ W] [Valid=382 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Yes	140	36.6%
2	No	242	63.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a28: % of field planted to cowpea

Information [Type= discrete] [Format=numeric] [Range= 1-4] [Missing=*]

Statistics [NW/ W] [Valid=381 /-] [Invalid=1 /-]

Value	Label	Cases	Percentage
1	<25%	16	4.2%
2	25-50%	84	22.0%
3	50-75%	46	12.1%
4	>75%	235	61.7%
Sysmiss		1	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a29: tot qty harvested

Information [Type= continuous] [Format=numeric] [Range= 11.2-2071] [Missing=*]

Statistics [NW/ W] [Valid=382 /-] [Invalid=0 /-] [Mean=193.407 /-] [StdDev=171.247 /-]

a30: units

Information [Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]

Statistics [NW/ W] [Valid=382 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	lbs	0	
2	kg	382	100.0%
99	other	0	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

a30_other: A30_other

Information [Type= discrete] [Format=numeric] [Missing=*]

Statistics [NW/ W] [Valid=0 /-] [Invalid=382 /-]

Value	Label	Cases	Percentage
Sysmiss		382	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

conv_a28: area conversion rate for intercropped fields

Information [Type= continuous] [Format=numeric] [Range= 12.5-100] [Missing=*]

Statistics [NW/ W] [Valid=381 /-] [Invalid=1 /-] [Mean=79.167 /-] [StdDev=29.474 /-]

cowpea_area: cowpea area (acres) after adjusting for intercropping

Information [Type= continuous] [Format=numeric] [Range= 0.0375000014901161-4] [Missing=*]

File : Ghana field_level_data A25-A30_2_public

cowpea_area: cowpea area (acres) after adjusting for intercropping

Statistics [NW/ W]	[Valid=381 /-] [Invalid=1 /-] [Mean=0.895 /-] [StdDev=0.551 /-]
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